

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX090419\  
 Data File : VX012082.D  
 Acq On : 05 Sep 2019 06:09  
 Operator : SY/SP  
 Sample : K4593-01  
 Misc : 4.92g/5.0mL/MSVOA\_X/SOIL  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S-3-(5-7)

Quant Time: Sep 05 06:39:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 03 15:26:48 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 146093   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 247807   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 184506   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 52852    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|--------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   |        | 6.05  | 65   | 97205    | 48.22 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |       |      | Recovery | =     | 96.44%  |          |
| 35) Dibromofluoromethane    |        | 5.48  | 113  | 75485    | 49.53 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |       |      | Recovery | =     | 99.06%  |          |
| 50) Toluene-d8              |        | 8.71  | 98   | 286656   | 51.26 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |       |      | Recovery | =     | 102.52% |          |
| 62) 4-Bromofluorobenzene    |        | 11.14 | 95   | 81522    | 31.35 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |       |      | Recovery | =     | 62.70%  |          |

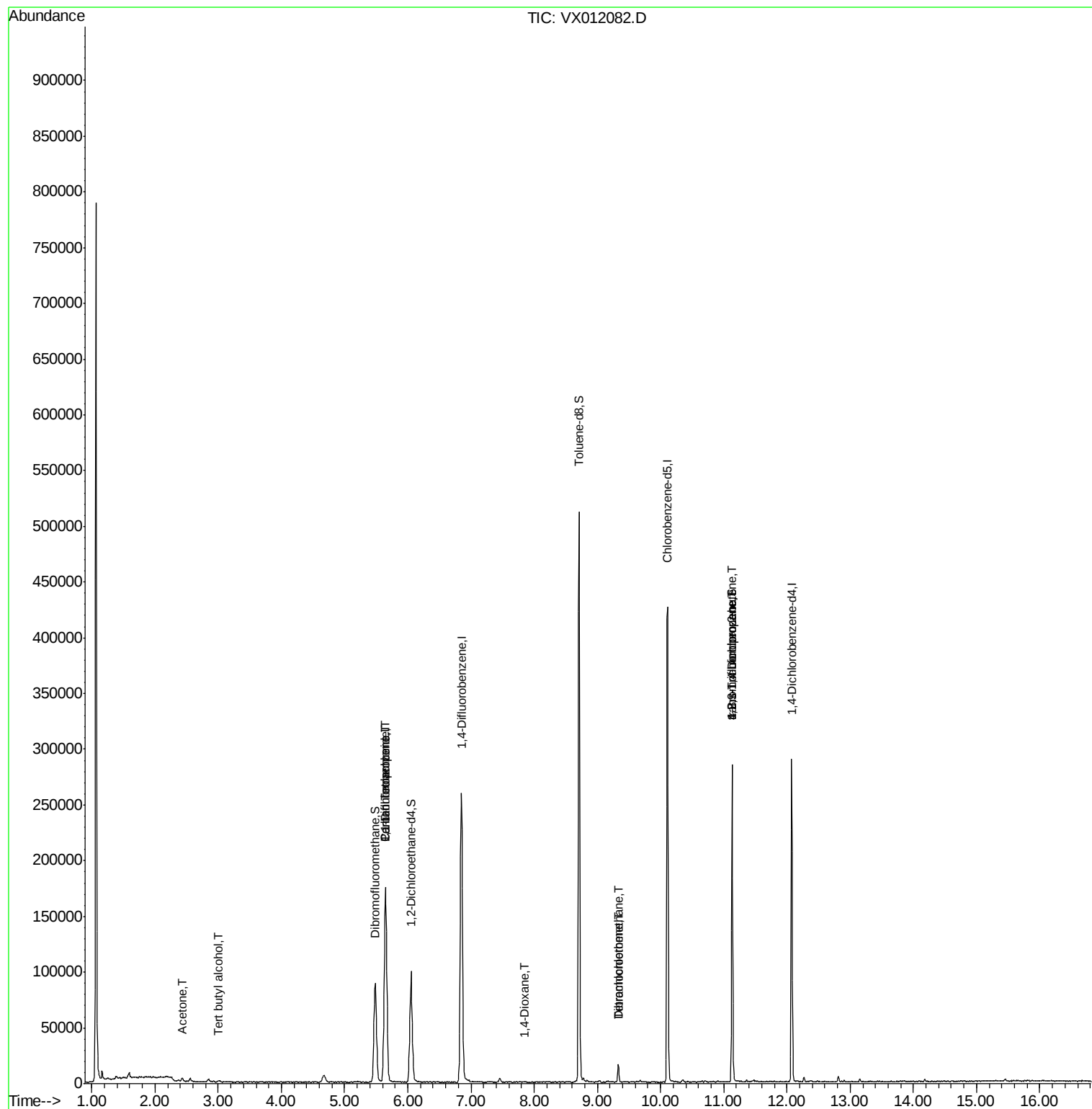
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 3.01  | 59   | 1246     | 6.435     | ug/l # | 94     |
| 13) Acrolein                   | 2.26  | 56   | 189      | Below Cal | #      | 79     |
| 16) Acetone                    | 2.43  | 43   | 3362     | 6.978     | ug/l   | 100    |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 13866    | 6.353     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 17434    | 7.581     | ug/l # | 15     |
| 49) 1,4-Dioxane                | 7.84  | 88   | 19       | 1.149     | ug/l # | 23     |
| 60) Dibromochloromethane       | 9.33  | 129  | 2546     | 1.581     | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.33  | 164  | 2352     | 2.045     | ug/l # | 78     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 42524    | 65.850    | ug/l # | 31     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 42524    | 155.680   | ug/l # | 10     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : K4593-01  
Misc : 4.92g/5.0mL/MSVOA\_X/SOIL  
ALS Vial : 45 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
S-3-(5-7)

Quant Time: Sep 05 06:39:22 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 03 15:26:48 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012082.D

Acq: 05 Sep 2019 06:09

Instrument :

MSVOA\_X

ClientSampleId :

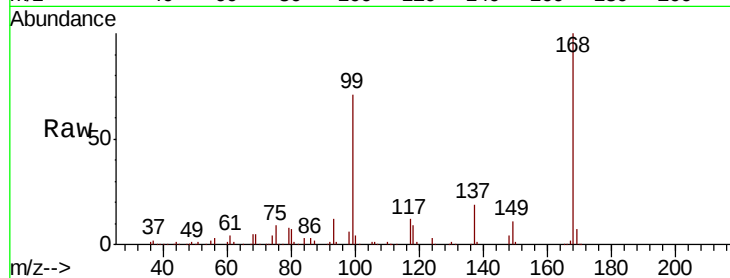
S-3-(5-7)

Tgt Ion:168 Resp: 146093

Ion Ratio Lower Upper

168 100

99 71.1 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

50000

40000

30000

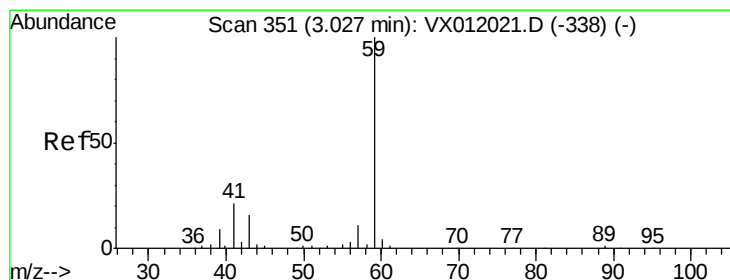
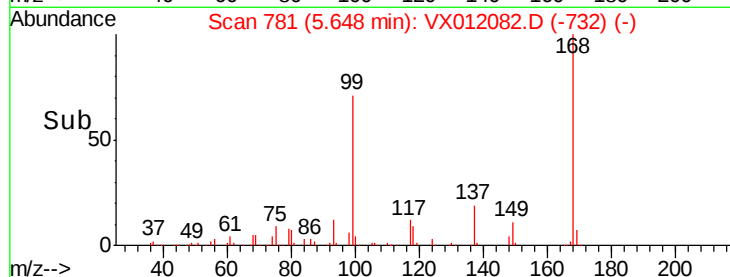
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 6.435 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.01 min

Lab File: VX012082.D

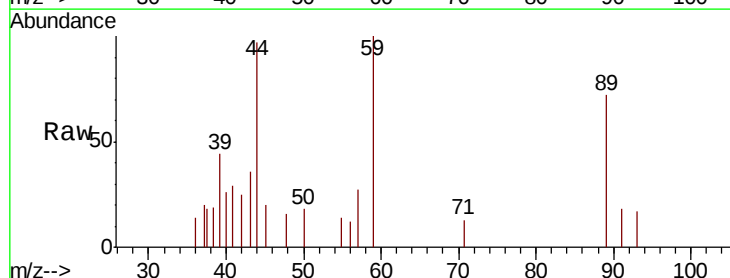
Acq: 05 Sep 2019 06:09

Tgt Ion: 59 Resp: 1246

Ion Ratio Lower Upper

59 100

57 12.1 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

400

300

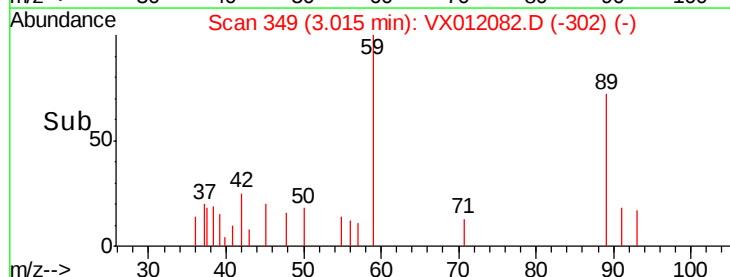
200

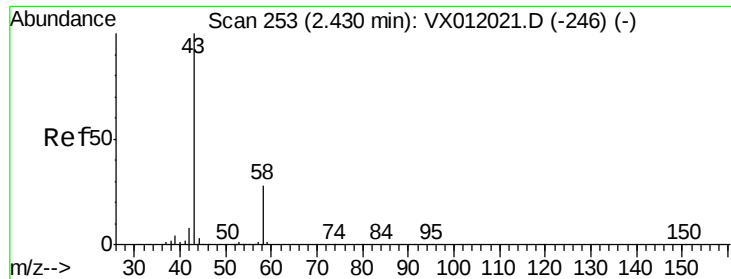
100

0

Time-->

2.95 3.00 3.05





#16

Acetone

Concen: 6.978 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012082.D

Acq: 05 Sep 2019 06:09

Instrument :

MSVOA\_X

ClientSampleId :

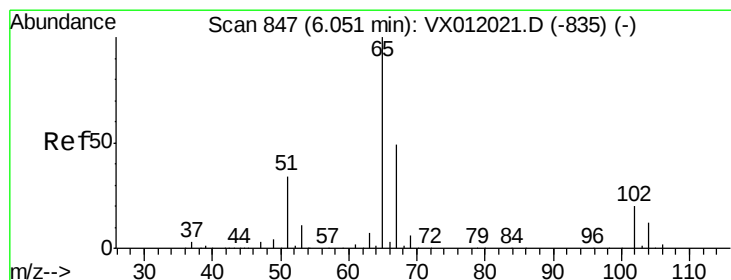
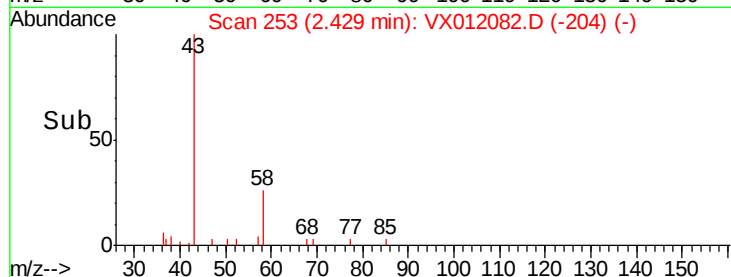
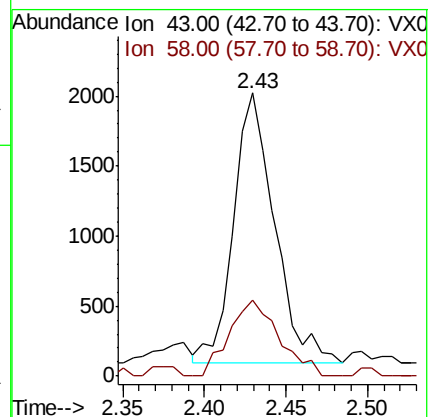
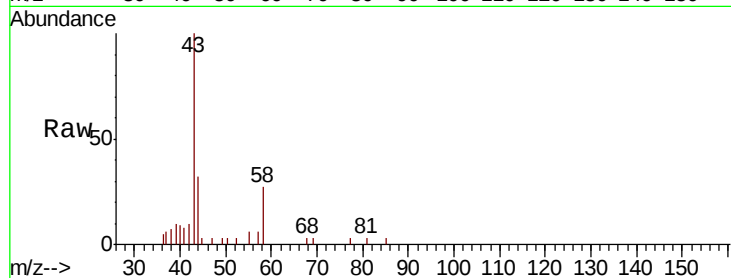
S-3-(5-7)

Tgt Ion: 43 Resp: 3362

Ion Ratio Lower Upper

43 100

58 28.4 22.8 34.2



#33

1,2-Dichloroethane-d4

Concen: 48.222 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012082.D

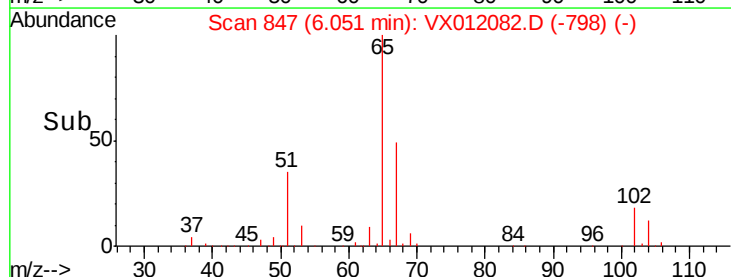
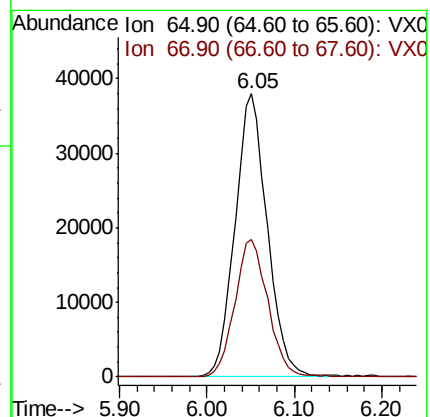
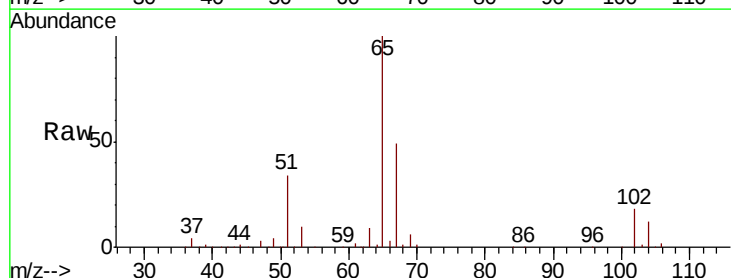
Acq: 05 Sep 2019 06:09

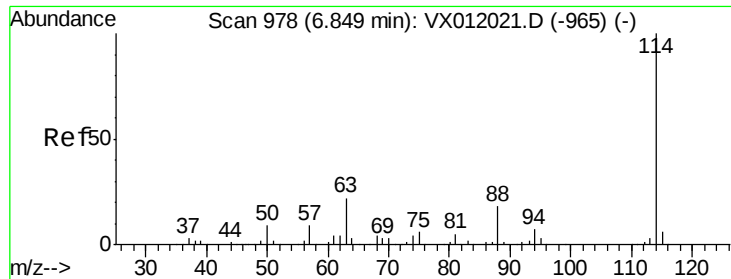
Tgt Ion: 65 Resp: 97205

Ion Ratio Lower Upper

65 100

67 49.9 0.0 102.0

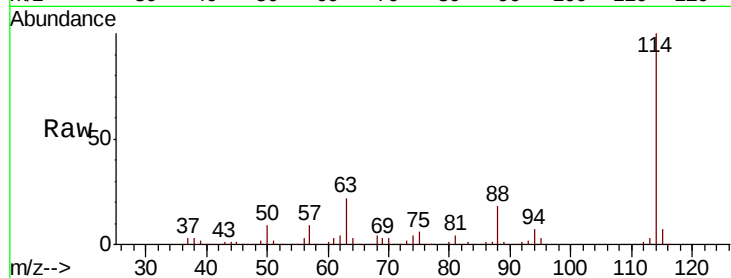




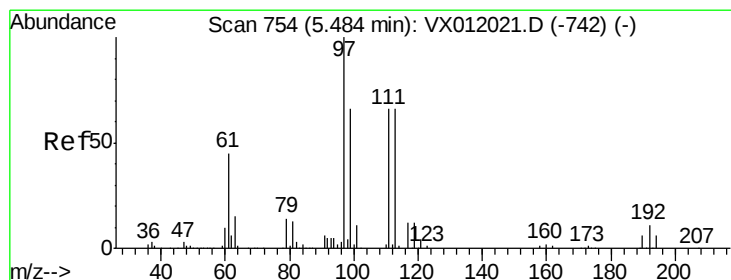
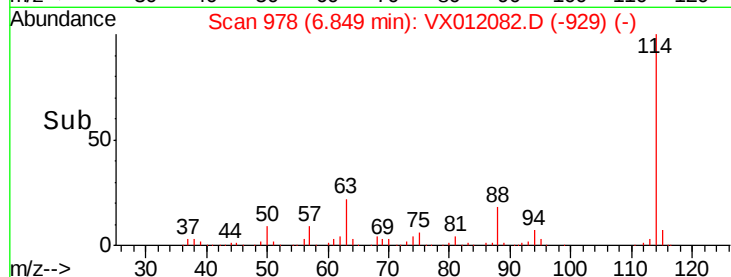
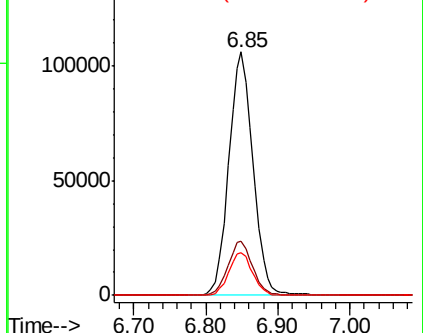
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. -0.00 min  
 Lab File: VX012082.D  
 Acq: 05 Sep 2019 06:09

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 S-3-(5-7)

Tgt Ion:114 Resp: 247807  
 Ion Ratio Lower Upper  
 114 100  
 63 22.3 0.0 37.4  
 88 17.5 0.0 29.6

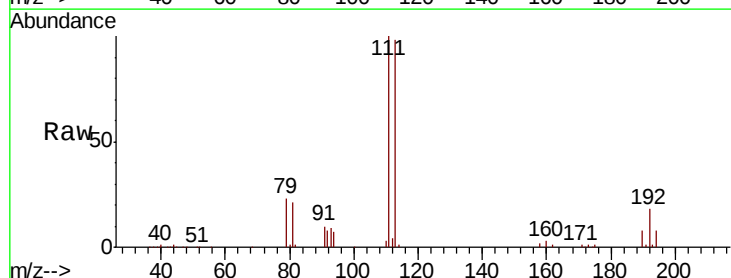


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

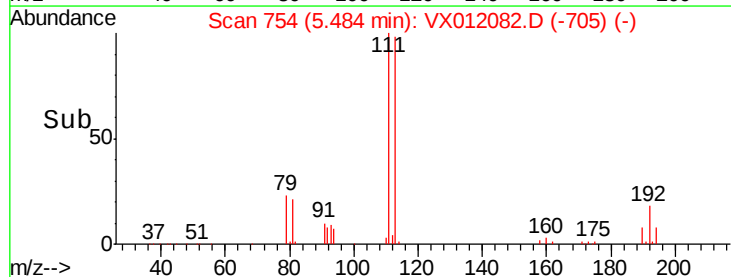
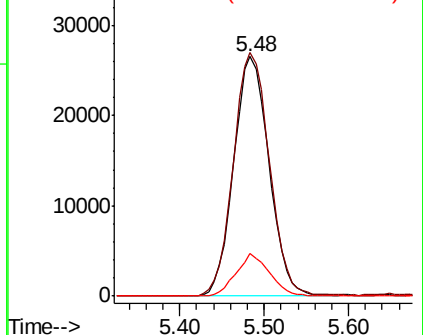


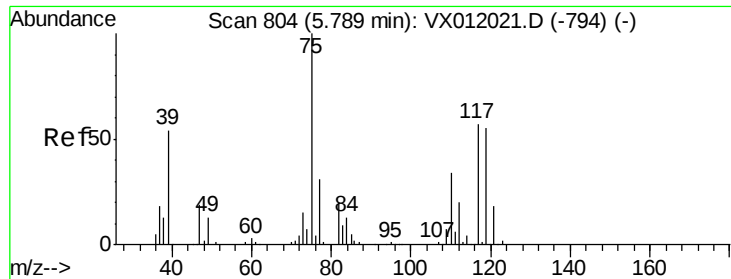
#35  
 Dibromofluoromethane  
 Concen: 49.533 ug/l  
 RT: 5.48 min Scan# 754  
 Delta R.T. -0.00 min  
 Lab File: VX012082.D  
 Acq: 05 Sep 2019 06:09

Tgt Ion:113 Resp: 75485  
 Ion Ratio Lower Upper  
 113 100  
 111 103.3 81.7 122.5  
 192 16.7 22.5 33.7#



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

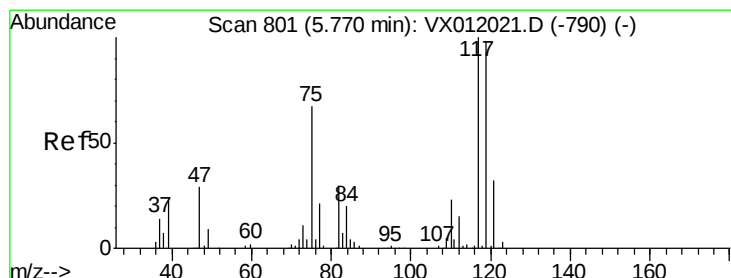
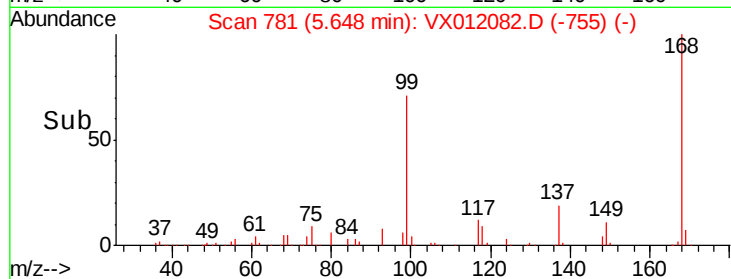
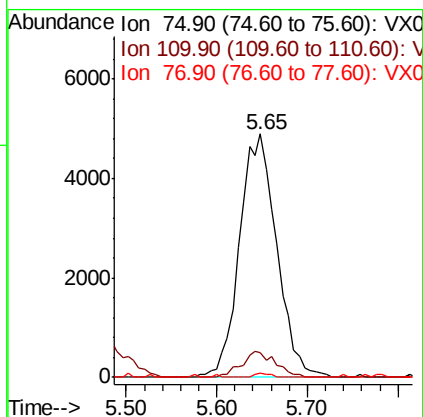
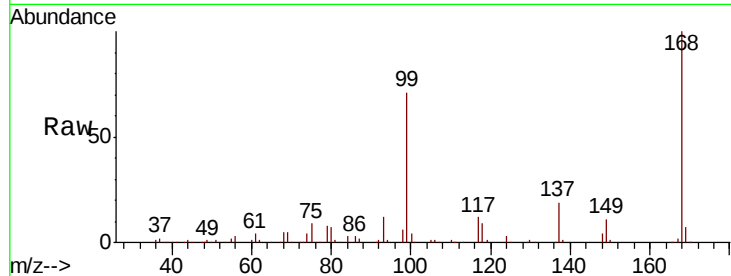




#36  
 1,1-Dichloropropene  
 Concen: 6.353 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.14 min  
 Lab File: VX012082.D  
 Acq: 05 Sep 2019 06:09

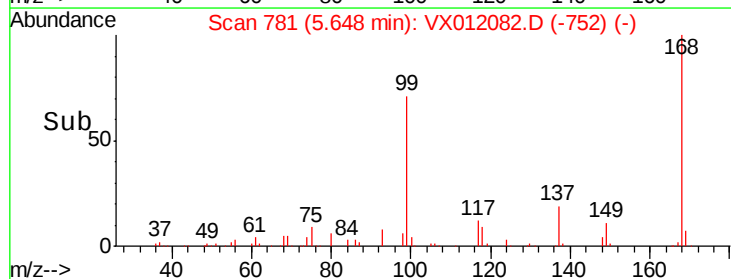
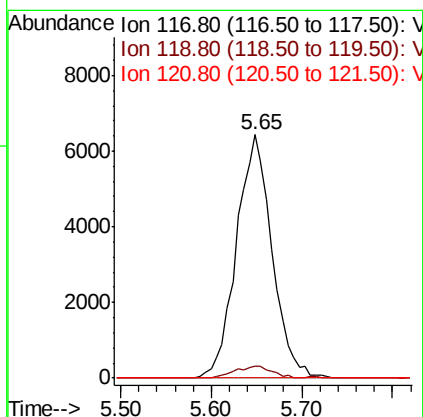
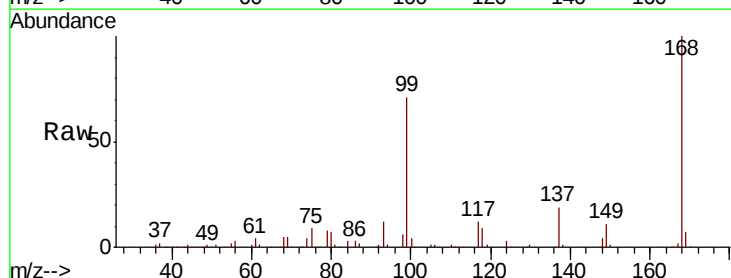
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S-3-(5-7)

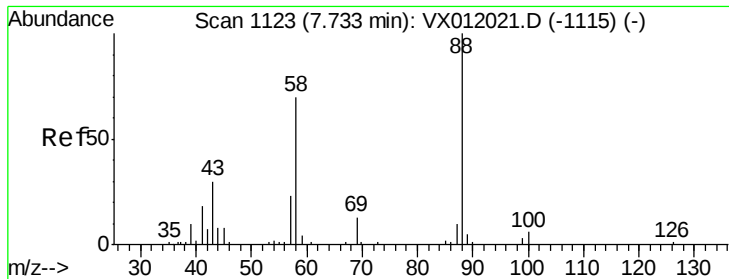
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.9   | 19.5  | 58.5# |
| 77      | 0.6   | 24.6  | 37.0# |



#38  
 Carbon Tetrachloride  
 Concen: 7.581 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.12 min  
 Lab File: VX012082.D  
 Acq: 05 Sep 2019 06:09

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.7   | 78.3  | 117.5# |
| 121     | 0.0   | 24.2  | 36.2#  |





#49

1,4-Dioxane

Concen: 1.149 ug/l

RT: 7.84 min Scan# 1141

Delta R.T. 0.12 min

Lab File: VX012082.D

Acq: 05 Sep 2019 06:09

Instrument :

MSVOA\_X

ClientSampleId :

S-3-(5-7)

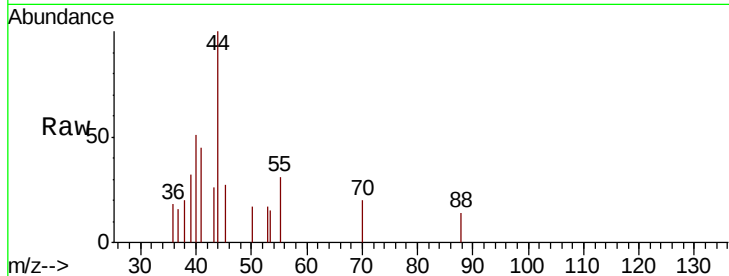
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 29.8 44.6#

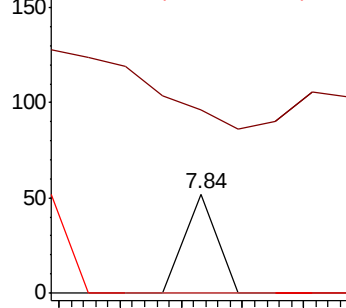
58 0.0 55.4 83.2#



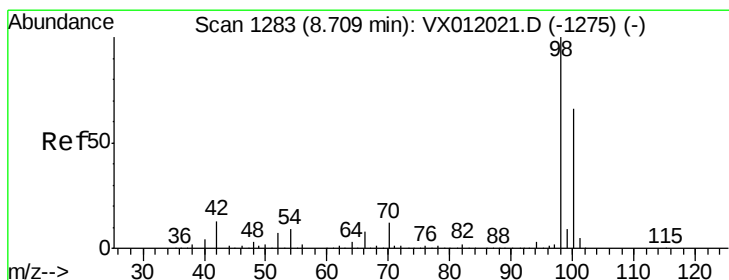
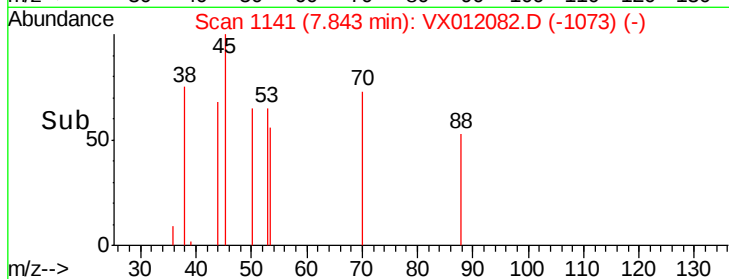
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 51.260 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012082.D

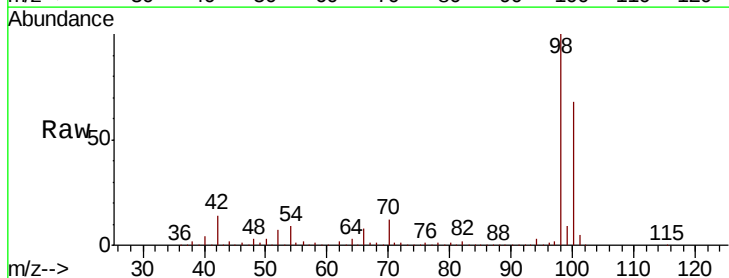
Acq: 05 Sep 2019 06:09

Tgt Ion: 98 Resp: 286656

Ion Ratio Lower Upper

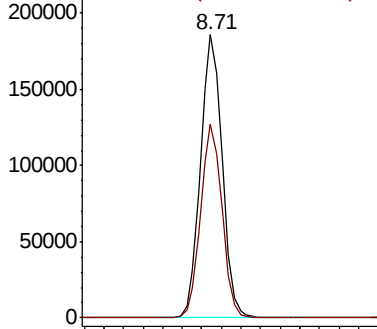
98 100

100 67.4 53.3 79.9

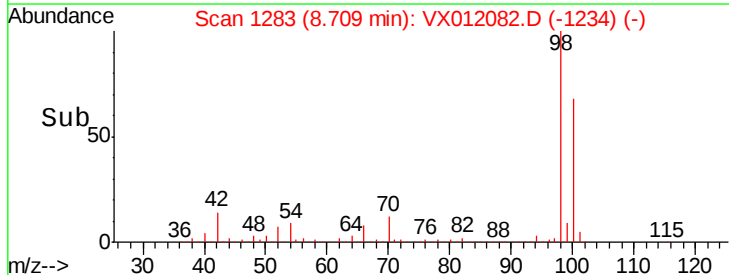


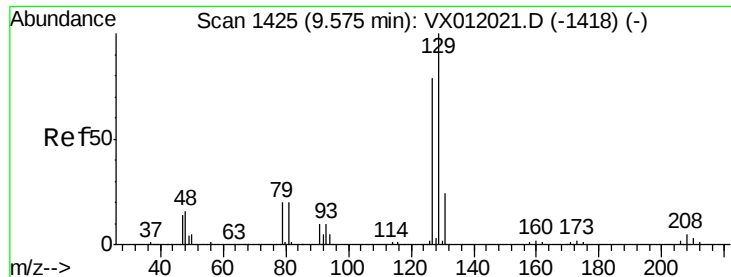
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



Time-->

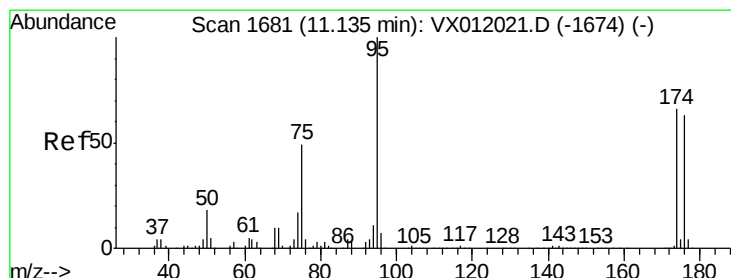
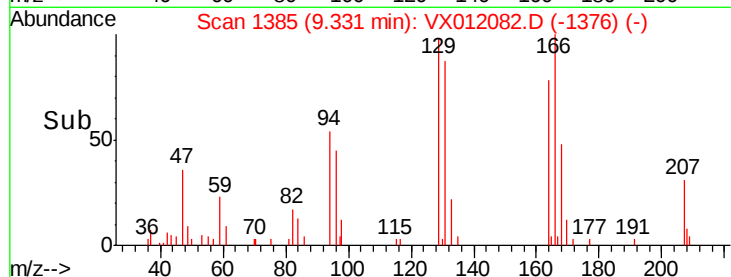
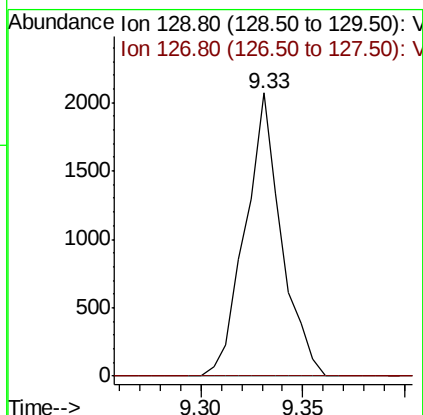
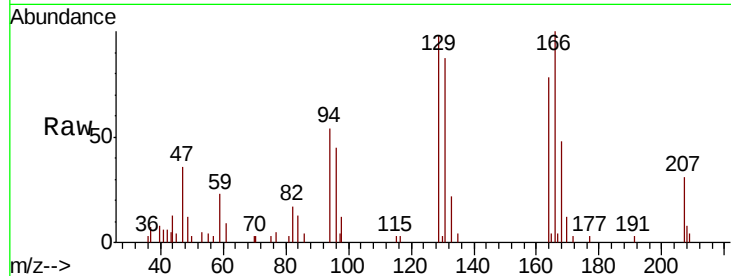




#60  
 Dibromochloromethane  
 Concen: 1.581 ug/l  
 RT: 9.33 min Scan# 1385  
 Delta R.T. -0.24 min  
 Lab File: VX012082.D  
 Acq: 05 Sep 2019 06:09

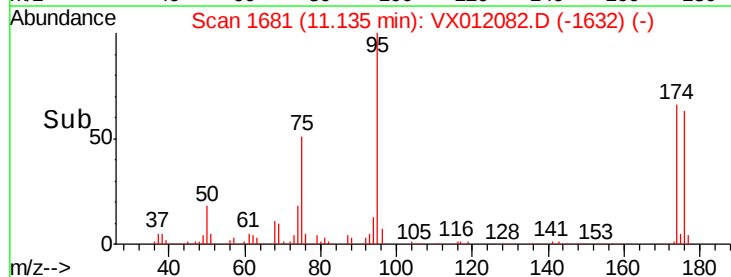
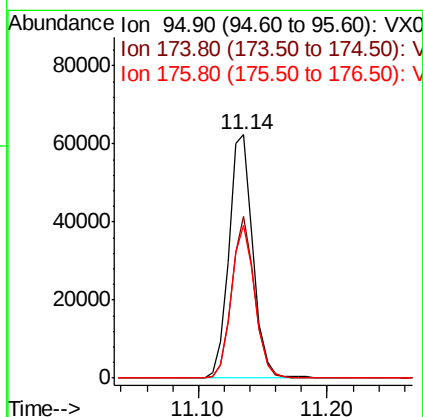
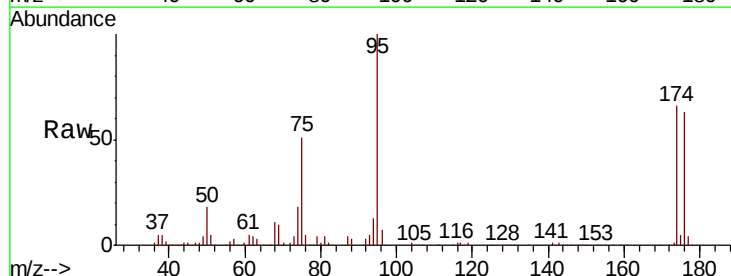
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 S-3-(5-7)

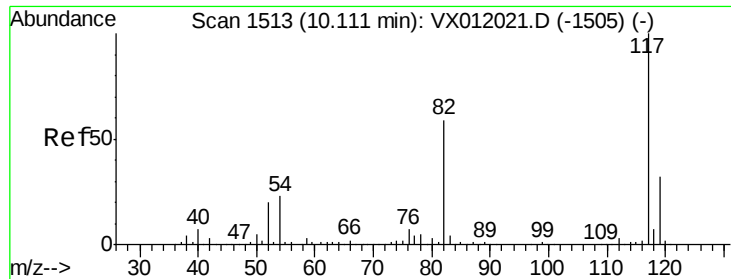
Tgt Ion:129 Resp: 2546  
 Ion Ratio Lower Upper  
 129 100  
 127 0.0 38.1 114.5#



#62  
 4-Bromofluorobenzene  
 Concen: 31.346 ug/l  
 RT: 11.14 min Scan# 1681  
 Delta R.T. -0.00 min  
 Lab File: VX012082.D  
 Acq: 05 Sep 2019 06:09

Tgt Ion: 95 Resp: 81522  
 Ion Ratio Lower Upper  
 95 100  
 174 63.2 0.0 205.4  
 176 61.2 0.0 201.8

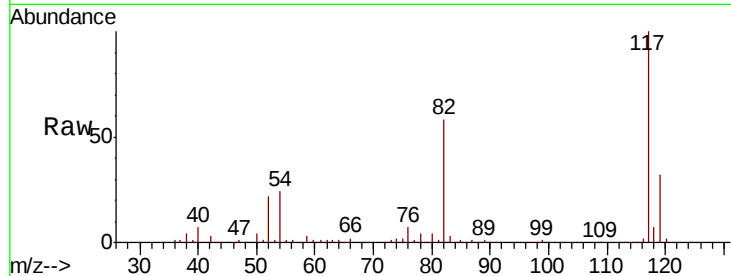




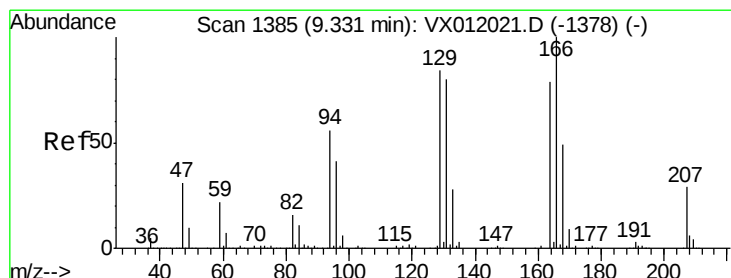
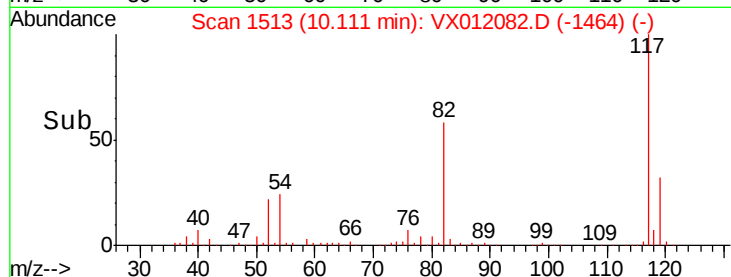
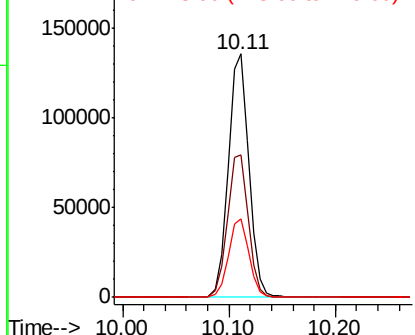
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX012082.D  
Acq: 05 Sep 2019 06:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
S-3-(5-7)

Tgt Ion:117 Resp: 184506  
Ion Ratio Lower Upper  
117 100  
82 58.5 39.4 59.0  
119 32.1 26.1 39.1

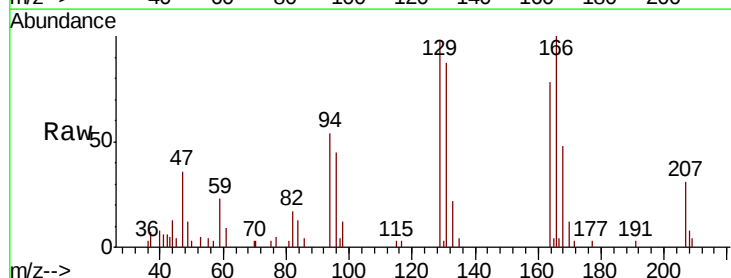


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

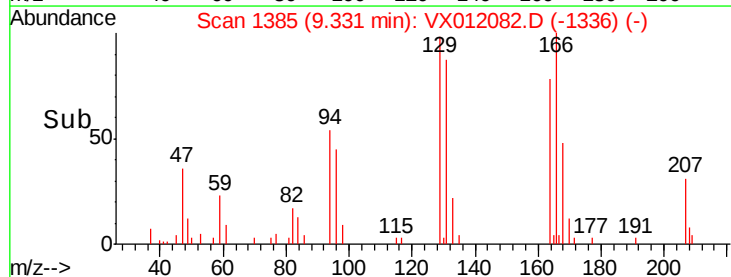
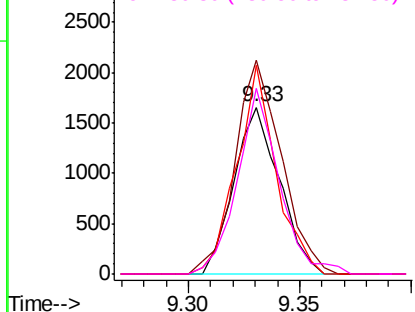


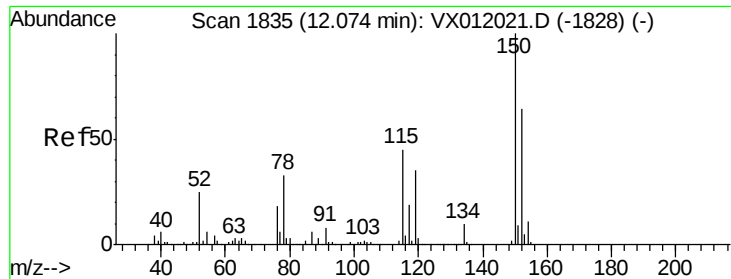
#64  
Tetrachloroethene  
Concen: 2.045 ug/l  
RT: 9.33 min Scan# 1385  
Delta R.T. -0.00 min  
Lab File: VX012082.D  
Acq: 05 Sep 2019 06:09

Tgt Ion:164 Resp: 2352  
Ion Ratio Lower Upper  
164 100  
166 128.1 104.3 156.5  
129 124.9 68.3 102.5#  
131 111.7 65.4 98.0#



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012082.D

Acq: 05 Sep 2019 06:09

Instrument :

MSVOA\_X

ClientSampled :

S-3-(5-7)

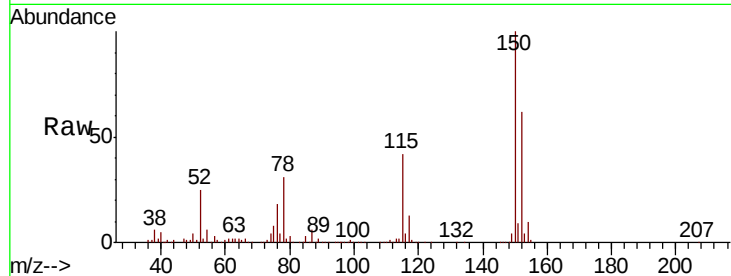
Tgt Ion:152 Resp: 52852

Ion Ratio Lower Upper

152 100

115 65.5 36.4 109.3

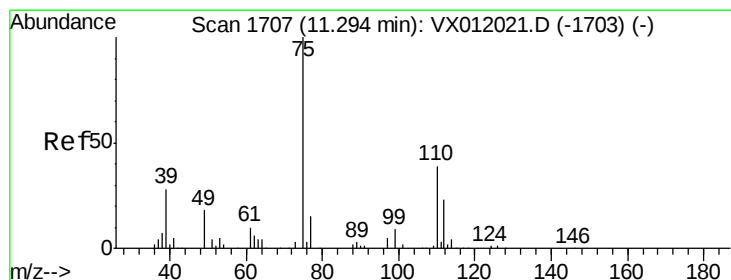
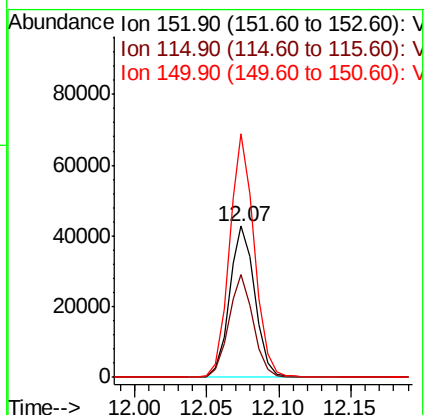
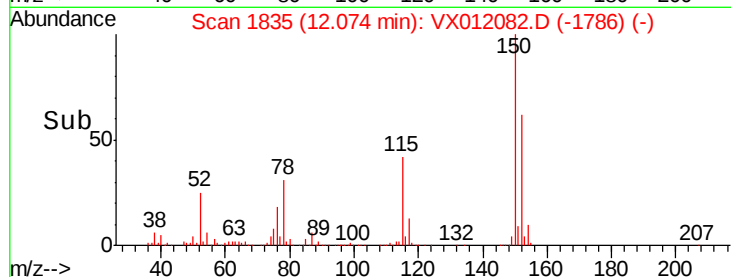
150 157.4 0.0 341.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 65.850 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012082.D

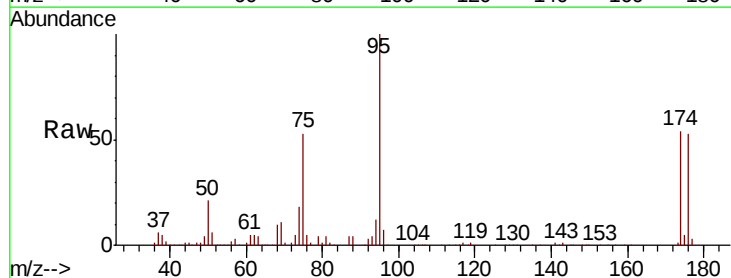
Acq: 05 Sep 2019 06:09

Tgt Ion: 75 Resp: 42524

Ion Ratio Lower Upper

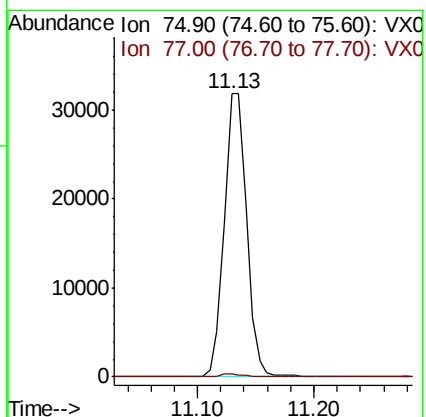
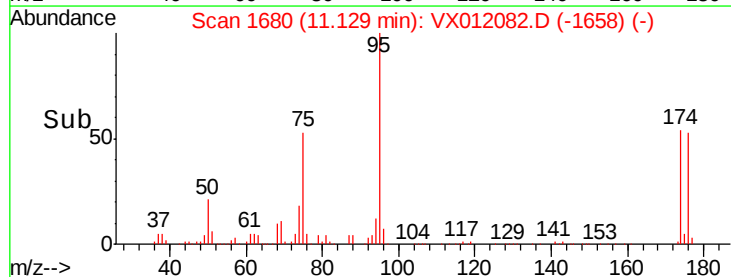
75 100

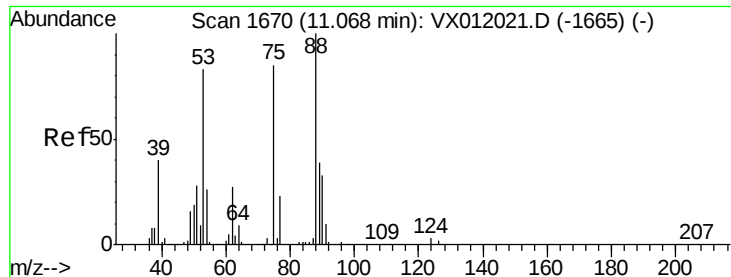
77 1.1 23.5 70.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 155.680 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012082.D

Acq: 05 Sep 2019 06:09

Instrument :

MSVOA\_X

ClientSampleId :

S-3-(5-7)

Tgt Ion: 75 Resp: 42524

Ion Ratio Lower Upper

75 100

53 0.1 78.6 117.8#

89 0.1 38.8 58.2#

